

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

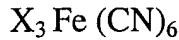
1.-21. Canceled.

22. (Previously Presented) An amperometric sensor suitable for determining the concentration of hydrogen peroxide in a sample, said sensor comprising a ferricyanide compound which, in reduced form, functions as a mediator selective for hydrogen peroxide.

23. (Previously Presented) A sensor according to claim 22 further comprising an enzyme which is capable of reacting with an analyte in the sample to produce hydrogen peroxide.

24. (Previously Presented) A sensor according to claim 23, wherein the analyte is glucose and the enzyme is glucose oxidase.

25. (Previously Presented) A sensor according to claim 22, wherein the ferricyanide compound is of general formula:



in which the groups X are the same or different and at least one X is a nonmetallic ion.

26. (Currently Amended) A sensor according to claim 25, in which each X is a quaternary ~~ain~~monium ammonium ion of formula $(\text{R}^1)(\text{R}^2)(\text{R}^3)(\text{R}^4)\text{N}^+$ in which R^1 to R^4 are the same or different alkyl groups containing from 1 to 20 carbon atoms,

provided that at least one of R¹ to R⁴ contains at least 4 carbon atoms.

27. (Previously Presented) A sensor according to claim 26, wherein the ferricyanide compound is tetrahexylammonium ferricyanide, tetrakisdecylammonium ferricyanide, tetradecyltrimethylammonium ferricyanide, hexadecyltrimethylammonium ferricyanide or trimethylhexylammonium ferricyanide.

28. (Currently Amended) A sensor according to claim 25, wherein each X is a phosphonium ion of formula (R⁵) (R⁶ R⁶) (R⁷) (R⁸) P⁺ in which R⁵ to R⁸ are the same or different alkyl groups containing from 1 to 20 carbon atoms, provided that at least one group R⁵ to R⁸ contains at least 4 carbon atoms.

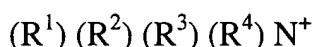
29. (Previously Presented) A sensor according to claim 25, wherein each X is a nitrogen-containing heterocyclic cation.

30. (Previously Presented) A sensor according to claim 29, wherein each X is a pyridinium ion.

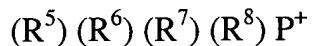
31. (Previously Presented) A sensor according to claim 22, in which the ferricyanide compound is bound to a polymer.

32. (Previously Presented) A sensor according to claim 31 wherein the polymer is a polyacrylamide.

33. (Currently Amended) A sensor according to claim 31, wherein the ferricyanide compound is bound to the polymer via one of groups R¹ to R⁴ of a quaternary ammonium ion of formula



or via one of groups R⁵ to R⁸ of a ~~quaternary~~ phosphonium ion of formula



or via a nitrogen-containing heterocyclic cation.

34. (Previously Presented) A sensor according to claim 31 wherein the ferricyanide compound is polypyridinium ammonium ferricyanide or poly(acrylamide-co-diethyldimethyl ammonium) ferricyanide.

35. (Previously Presented) A cartridge for an amperometric sensor suitable for measuring hydrogen peroxide in a sample, which cartridge comprises a ferricyanide compound as defined in claim 22.

36. (Previously Presented) A cartridge according to claim 35, further comprising an enzyme as defined in claim 2.

37. (Previously Presented) A cartridge according to claim 35, further comprising an enzyme as defined in claim 3.

38. (Currently Amended) ~~Use of an amperometric sensor as claimed in claim 22,~~ A method for determining the concentration of hydrogen peroxide in a sample using the amperometric sensor as claimed in claim 23.

39. (Currently Amended) ~~Use of an amperometric sensor as claimed in claim 23~~ A method for determining the concentration of an analyte in a sample using the amperometric sensor as claimed in claim 24, wherein the enzyme of the sensor reacts with the analyte to produce hydrogen peroxide.

40.-43. Canceled.